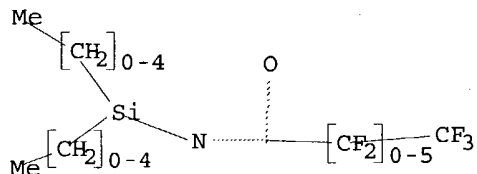


=>  
Uploading 09319967.str

L6        STRUCTURE UPLOADED

=> d

L6 HAS NO ANSWERS  
L6        STR



Structure attributes must be viewed using STN Express query preparation.

=> s 2/si

L7        112281 2/SI

=> s l6 subset=l7

ENTER SUBSET SEARCH SCOPE - SAMPLE, FULL, RANGE, OR (END):sam

SAMPLE SUBSET SEARCH INITIATED 10:29:01 FILE 'REGISTRY'  
SAMPLE SUBSET SCREEN SEARCH COMPLETED -        2 TO ITERATE  
100.0% PROCESSED        2 ITERATIONS        1 ANSWERS  
SEARCH TIME: 00.00.01

PROJECTIONS (WITHIN SPECIFIED SUBSET):	ONLINE	**COMPLETE**
PROJECTED ITERATIONS (WITHIN SPECIFIED SUBSET):	2 TO	124
PROJECTED ANSWERS (WITHIN SPECIFIED SUBSET):	1 TO	80

L8        1 SEA SUB=L7 SSS SAM L6

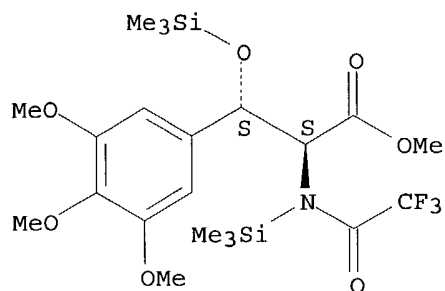
=> s scan

L9        14 SCAN

=> d scan l8

L8    1 ANSWERS    REGISTRY    COPYRIGHT 2000 ACS  
IN    Tyrosine, 3,5-dimethoxy-O-methyl-N-(trifluoroacetyl)-N-(trimethylsilyl)-  
      β-[(trimethylsilyl)oxy]-, methyl ester, erythro- (9CI)  
MF    C21 H34 F3 N O7 Si2

Relative stereochemistry.



ALL ANSWERS HAVE BEEN SCANNED

=> s 16 subset=17 full

FULL SUBSET SEARCH INITIATED 10:29:48 FILE 'REGISTRY'  
 FULL SUBSET SCREEN SEARCH COMPLETED - 79 TO ITERATE  
 100.0% PROCESSED 79 ITERATIONS  
 SEARCH TIME: 00.00.02

75 ANSWERS

L10 75 SEA SUB=L7 SSS FUL L6

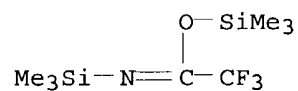
=> s 110 and 1/o

2607474 1/O  
 L11 19 L10 AND 1/O

=> d scan

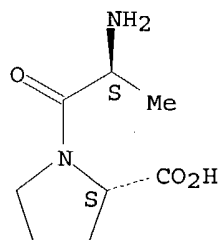
L11 19 ANSWERS REGISTRY COPYRIGHT 2000 ACS  
 IN L-Proline, 1-L-alanyl-, mixt. with trimethylsilyl 2,2,2-trifluoro-N-  
 (trimethylsilyl)ethanimidate (9CI)  
 MF C8 H18 F3 N O Si2 . C8 H14 N2 O3  
 CI MXS

CM 1



CM 2

Absolute stereochemistry.



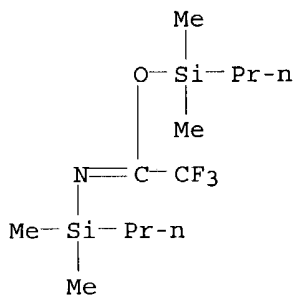
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=> s l11 and 1/nc

L12 19101843 1/NC  
14 L11 AND 1/NC

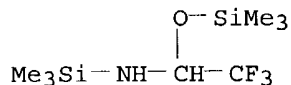
=> d scan

L12 14 ANSWERS REGISTRY COPYRIGHT 2000 ACS  
IN Ethanimidic acid, N-(dimethylpropylsilyl)-2,2,2-trifluoro-,  
dimethylpropylsilyl ester (9CI)  
MF C12 H26 F3 N O Si2

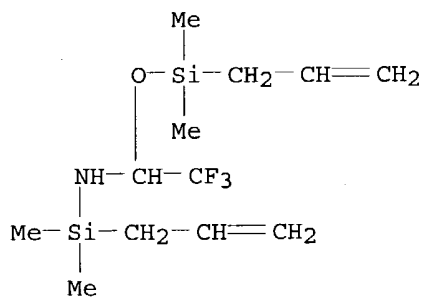


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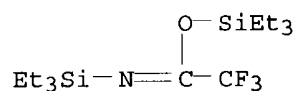
L12 14 ANSWERS REGISTRY. COPYRIGHT 2000 ACS  
IN Silanamine, 1,1,1-trimethyl-N-[2,2,2-trifluoro-1-  
[(trimethylsilyl)oxy]ethyl]- (9CI)  
MF C8 H20 F3 N O Si2



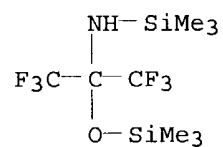
L12 14 ANSWERS REGISTRY COPYRIGHT 2000 ACS  
IN Silanamine, N-[1-[(dimethyl-2-propenylsilyl)oxy]-2,2,2-trifluoroethyl]-1,1-  
dimethyl-1-(2-propenyl)- (9CI)  
MF C12 H24 F3 N O Si2



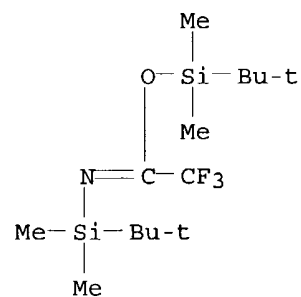
L12 14 ANSWERS REGISTRY COPYRIGHT 2000 ACS  
 IN Ethanimidic acid, 2,2,2-trifluoro-N-(triethylsilyl)-, triethylsilyl ester  
 (9CI)  
 MF C14 H30 F3 N O Si2



L12 14 ANSWERS REGISTRY COPYRIGHT 2000 ACS  
 IN Silanamine, 1,1,1-trimethyl-N-[2,2,2-trifluoro-1-(trifluoromethyl)-1-  
 [(trimethylsilyl)oxy]ethyl]- (9CI)  
 MF C9 H19 F6 N O Si2

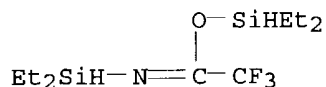


L12 14 ANSWERS REGISTRY COPYRIGHT 2000 ACS  
 IN Ethanimidic acid, N-[(1,1-dimethylethyl)dimethylsilyl]-2,2,2-trifluoro-,  
 (1,1-dimethylethyl)dimethylsilyl ester (9CI)  
 MF C14 H30 F3 N O Si2

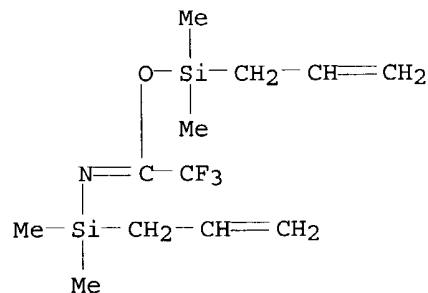


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

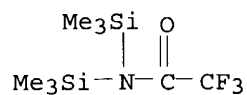
L12 14 ANSWERS REGISTRY COPYRIGHT 2000 ACS  
IN Ethanimidic acid, N-(diethylsilyl)-2,2,2-trifluoro-, diethylsilyl ester  
(9CI)  
MF C10 H22 F3 N O Si2



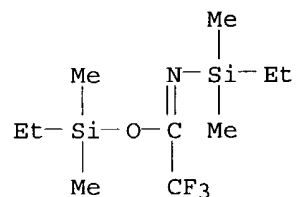
L12 14 ANSWERS REGISTRY COPYRIGHT 2000 ACS  
IN Ethanimidic acid, N-(dimethyl-2-propenylsilyl)-2,2,2-trifluoro-,  
dimethyl-2-propenylsilyl ester (9CI)  
MF C12 H22 F3 N O Si2



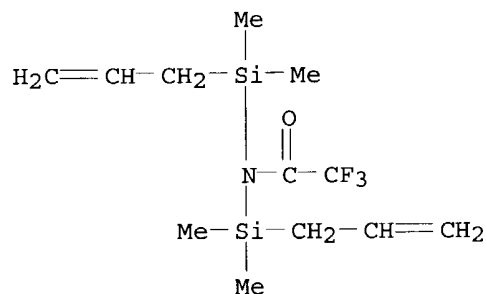
L12 14 ANSWERS REGISTRY COPYRIGHT 2000 ACS  
IN Acetamide, 2,2,2-trifluoro-N,N-bis(trimethylsilyl)- (8CI, 9CI)  
MF C8 H18 F3 N O Si2  
CI COM



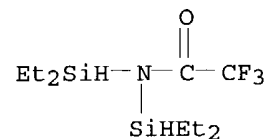
L12 14 ANSWERS REGISTRY COPYRIGHT 2000 ACS  
IN Ethanimidic acid, N-(ethyldimethylsilyl)-2,2,2-trifluoro-,  
ethyldimethylsilyl ester (9CI)  
MF C10 H22 F3 N O Si2



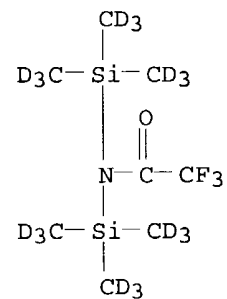
L12 14 ANSWERS REGISTRY COPYRIGHT 2000 ACS  
 IN Acetamide, N,N-bis(dimethyl-2-propenylsilyl)-2,2,2-trifluoro- (9CI)  
 MF C12 H22 F3 N O Si2



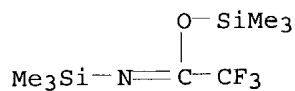
L12 14 ANSWERS REGISTRY COPYRIGHT 2000 ACS  
 IN Acetamide, N,N-bis(diethylsilyl)-2,2,2-trifluoro- (9CI)  
 MF C10 H22 F3 N O Si2



L12 14 ANSWERS REGISTRY COPYRIGHT 2000 ACS  
 IN Acetamide, 2,2,2-trifluoro-N,N-bis[tri(methyl-d3)silyl]- (9CI)  
 MF C8 D18 F3 N O Si2



L12 14 ANSWERS REGISTRY COPYRIGHT 2000 ACS  
 IN Ethanimidic acid, 2,2,2-trifluoro-N-(trimethylsilyl)-, trimethylsilyl ester (9CI)  
 MF C8 H18 F3 N O Si2  
 CI COM



ALL ANSWERS HAVE BEEN SCANNED

=> s l12 not (d/els or propenyl or Silanamine )

105525 D/ELS

454965 PROPENYL

6926 SILANAMINE

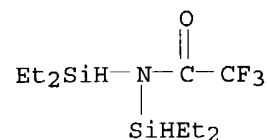
L13 8 L12 NOT (D/ELS OR PROPENYL OR SILANAMINE )

=> d scan

L13 8 ANSWERS REGISTRY COPYRIGHT 2000 ACS

IN Acetamide, N,N-bis(diethylsilyl)-2,2,2-trifluoro- (9CI)

MF C10 H22 F3 N O Si2

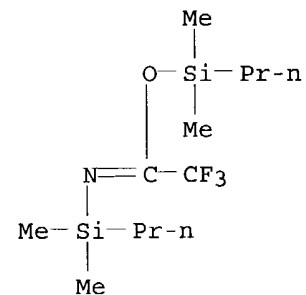


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L13 8 ANSWERS REGISTRY COPYRIGHT 2000 ACS

IN Ethanimidic acid, N-(dimethylpropylsilyl)-2,2,2-trifluoro-, dimethylpropylsilyl ester (9CI)

MF C12 H26 F3 N O Si2

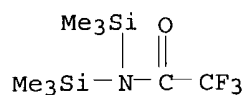


L13 8 ANSWERS REGISTRY COPYRIGHT 2000 ACS

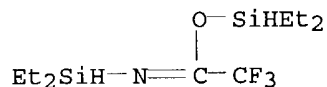
IN Acetamide, 2,2,2-trifluoro-N,N-bis(trimethylsilyl)- (8CI, 9CI)

MF C8 H18 F3 N O Si2

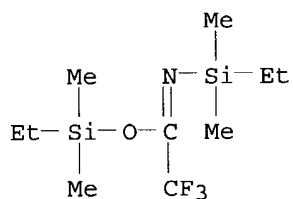
CI COM



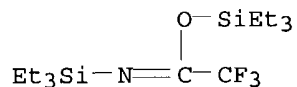
L13 8 ANSWERS REGISTRY COPYRIGHT 2000 ACS  
 IN Ethanimidic acid, N-(diethylsilyl)-2,2,2-trifluoro-, diethylsilyl ester  
 (9CI)  
 MF C10 H22 F3 N O Si2



L13 8 ANSWERS REGISTRY COPYRIGHT 2000 ACS  
 IN Ethanimidic acid, N-(ethyldimethylsilyl)-2,2,2-trifluoro-,  
 ethyldimethylsilyl ester (9CI)  
 MF C10 H22 F3 N O Si2

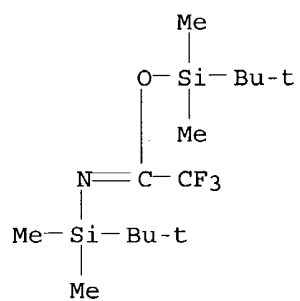


L13 8 ANSWERS REGISTRY COPYRIGHT 2000 ACS  
 IN Ethanimidic acid, 2,2,2-trifluoro-N-(triethylsilyl)-, triethylsilyl ester  
 (9CI)  
 MF C14 H30 F3 N O Si2

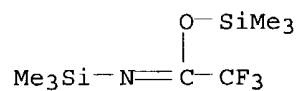


L13 8 ANSWERS REGISTRY COPYRIGHT 2000 ACS  
 IN Ethanimidic acid, N-[(1,1-dimethylethyl)dimethylsilyl]-2,2,2-trifluoro-,  
 (1,1-dimethylethyl)dimethylsilyl ester (9CI)  
 MF C14 H30 F3 N O Si2





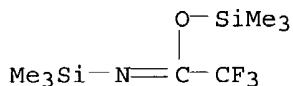
L13 8 ANSWERS REGISTRY COPYRIGHT 2000 ACS  
 IN Ethanimidic acid, 2,2,2-trifluoro-N-(trimethylsilyl)-, trimethylsilyl  
 ester (9CI)  
 MF C8 H18 F3 N O Si2  
 CI COM



ALL ANSWERS HAVE BEEN SCANNED

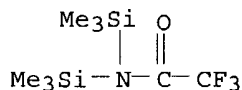
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L4 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2000 ACS  
RN 25561-30-2 REGISTRY  
CN **Ethanimidic acid, 2,2,2-trifluoro-N-(trimethylsilyl)-, trimethylsilyl ester (9CI)** (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN **Acetimidic acid, 2,2,2-trifluoro-N-(trimethylsilyl)-, trimethylsilyl ester (8CI)**  
CN **Silanol, trimethyl-, 2,2,2-trifluoro-N-(trimethylsilyl)acetimidate (8CI)**  
OTHER NAMES:  
CN **2,2,2-Trifluoro-N,O-bis(trimethylsilyl)acetamide**  
CN **Bis(trimethylsilyl)trifluoroacetamide**  
CN BSTFA  
CN **N,O-Bis(trimethylsilyl)trifluoroacetamide**  
CN **N,O-Bis(trimethylsilyl)trifluoroacetamide**  
CN **Trifluoro-N,O-bis(trimethylsilyl)acetamide**  
MF C8 H18 F3 N O Si2  
CI COM  
LC STN Files: AGRICOLA, BEILSTEIN\*, BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHEM, IFICDB, IFIPAT, IFIUDB, MSDS-OHS, PIRA, PROMT, TOXLINE, TOXLIT, USPATFULL  
(\*File contains numerically searchable property data)  
Other Sources: EINECS\*\*  
(\*Enter CHEMLIST File for up-to-date regulatory information)



202 REFERENCES IN FILE CA (1967 TO DATE)  
4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
202 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L4 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2000 ACS  
RN 21149-38-2 REGISTRY  
CN **Acetamide, 2,2,2-trifluoro-N,N-bis(trimethylsilyl)- (8CI, 9CI)** (CA INDEX NAME)  
OTHER NAMES:  
CN **N,N-Bis(trimethylsilyl)trifluoroacetamide**  
FS 3D CONCORD  
MF C8 H18 F3 N O Si2  
CI COM  
LC STN Files: BEILSTEIN\*, BIOBUSINESS, CA, CANCERLIT, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHEM, EMBASE, GMELIN\*, HODOC\*, IFICDB, IFIPAT, IFIUDB, MEDLINE, SPECINFO, TOXLINE, TOXLIT, USPATFULL  
(\*File contains numerically searchable property data)  
Other Sources: EINECS\*\*, NDSL\*\*, TSCA\*\*  
(\*Enter CHEMLIST File for up-to-date regulatory information)



64 REFERENCES IN FILE CA (1967 TO DATE)  
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

more info

=> d'his

(FILE 'HOME' ENTERED AT 10:07:44 ON 23 JAN 2000)

FILE 'REGISTRY' ENTERED AT 10:07:49 ON 23 JAN 2000

L1 165 S TRIFLUOROACETAMIDE  
L2 4 S L1 AND TRIMETHYLSILYL  
L3 3 S L2 AND BIS  
L4 2 S L3 NOT PMS/CI

FILE 'CAPLUS' ENTERED AT 10:21:13 ON 23 JAN 2000

=> s l4/prep

264 L4  
2571797 PREP/RL  
L5 8 L4/PREP  
(L4 (L) PREP/RL)

=> d ibib abs it hitstr 1-8

L5 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2000 ACS  
ACCESSION NUMBER: 1999:116666 CAPLUS  
DOCUMENT NUMBER: 130:153791  
TITLE: Method for preparation of silylated carboxylic acid  
amides  
INVENTOR(S): Winterfeld, Joern; Loskot, Stephan; Menzel, Hartmut;  
Reitmeier, Rudolf  
PATENT ASSIGNEE(S): Wacker-Chemie G.m.b.H., Germany  
SOURCE: Ger., 8 pp.  
CODEN: GWXXAW

DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19807021	C1	19990211	DE 1998-19807021	19980219
EP 937730	A2	19990825	EP 1998-121577	19981119
EP 937730	A3	19991013		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO

PRIORITY APPLN. INFO.: DE 1998-19807021 19980219

OTHER SOURCE(S): CASREACT 130:153791

AB The preparation of title compds. via reaction of carboxylic acid chloride with disilazane in the presence of carbonyl group activator is described. Thus, reaction of acetyl chloride with hexamethyldisilazane in the presence of pyridine and Me<sub>3</sub>SiCl/Me<sub>3</sub>N gave 90% N,N- as well as N,O-bistrimethylsilylacetamide.

IT Amides, preparation

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (silylated; preparation of silylated carboxylic acid amide via carbonyl group activator promoted reaction of carboxylic acid chloride with disilazane)

IT 78-40-0, Phosphoric acid triethyl ester 80-73-9, 1,3-Dimethyl-2-imidazolidinone 100-71-0, 2-Ethylpyridine 108-48-5, 2,6-Dimethylpyridine 108-99-6 110-86-1, Pyridine, uses 115-86-6, Phosphoric acid triphenyl ester 119-61-9, Benzophenone, uses 126-73-8, Phosphoric acid tributyl ester, uses 603-35-0, Triphenylphosphine, uses 616-47-7, N-Methylimidazole 791-28-6, Triphenylphosphine oxide 872-50-4, N-Methyl-2-pyrrolidinone, uses 998-40-3, Tributylphosphine 19836-78-3, 3-Methyl-2-oxazolidinone 94220-08-3, 1,3-Dimethyltetrahydro-2-pyrimidinone

RL: CAT (Catalyst use); USES (Uses)

(preparation of silylated carboxylic acid amide via carbonyl group activator promoted reaction of carboxylic acid chloride with disilazane)

IT 75-36-5, Acetyl chloride 79-03-8, Propionic acid chloride 141-75-3, Butyric acid chloride 354-32-5, Trifluoroacetyl chloride 999-97-3, Hexamethyldisilazane 13435-12-6, N-Trimethylsilylacetamide 18156-74-6, N-Trimethylsilylimidazole 18293-54-4 55982-15-5 60498-72-8, N-Trimethylsilyl-2-methylimidazole 119352-64-6 220207-92-1

RL: RCT (Reactant)

(preparation of silylated carboxylic acid amide via carbonyl group activator promoted reaction of carboxylic acid chloride with disilazane)

IT 10416-58-7P 10416-59-8P 18140-08-4P **21149-38-2P**  
 23728-72-5P **25561-30-2P**

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of silylated carboxylic acid amide via carbonyl group activator promoted reaction of carboxylic acid chloride with disilazane)

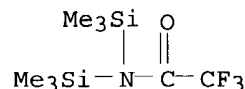
IT **21149-38-2P 25561-30-2P**

RL: SPN (Synthetic preparation); PREP (Preparation)

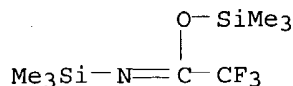
(preparation of silylated carboxylic acid amide via carbonyl group activator promoted reaction of carboxylic acid chloride with disilazane)

RN 21149-38-2 CAPLUS

CN Acetamide, 2,2,2-trifluoro-N,N-bis(trimethylsilyl)- (8CI, 9CI) (CA INDEX NAME)



RN 25561-30-2 CAPLUS  
CN Ethanimidic acid, 2,2,2-trifluoro-N-(trimethylsilyl)-, trimethylsilyl ester (9CI) (CA INDEX NAME)



L5 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2000 ACS  
ACCESSION NUMBER: 1998:405958 CAPLUS  
DOCUMENT NUMBER: 129:67865  
TITLE: Preparation of N,O-bis(trialkylsilyl)perfluoroacylamides  
INVENTOR(S): Forat, Gerard  
PATENT ASSIGNEE(S): Rhodia Chimie, Fr.; Forat, Gerard  
SOURCE: PCT Int. Appl., 14 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: French  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9825936	A1	19980618	WO 1997-FR2276	19971211
W:	AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HU, ID, IL, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
FR 2757167	A1	19980619	FR 1996-15279	19961212
FR 2757167	B1	19990122		
AU 9854887	A1	19980703	AU 1998-54887	19971211
EP 946571	A1	19991006	EP 1997-951313	19971211
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			

PRIORITY APPLN. INFO.: FR 1996-15279 19961212  
WO 1997-FR2276 19971211

OTHER SOURCE(S): CASREACT 129:67865; MARPAT 129:67865

AB The invention concerns the synthesis of N,O-bis(trialkylsilyl)perfluoroacylamides, R<sub>1</sub>R<sub>2</sub>R<sub>3</sub>SiN:C(R<sub>f</sub>)OSiR<sub>1</sub>R<sub>2</sub>R<sub>3</sub> (R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> = C<sub>1</sub>-10 alkyl; R<sub>f</sub> = (CX<sub>2</sub>)pGEA (X = same or different F, CnF<sub>2n+1</sub> (n = ≤5), p = ≤2; GEA = electron-attracting group, e.g. F or CnF<sub>2n+1</sub>)) which consists in: reacting an amide bearing a R<sub>f</sub> group with a trialkylsilyl halide in the presence of a base whose halide, or halohydrate, is insol. in the medium and in the presence of a nonpolar and nonhydrophilic solvent. For example, a mixture of 0.2 mol CF<sub>3</sub>C(O)NH<sub>2</sub> and 0.6 mol Et<sub>3</sub>N was added at 14 mL/h to 0.8 mol Me<sub>3</sub>SiCl in 120 mL pentane to maintain reflux and after addition the mixture was heated at reflux for 11.5 h to yield 89% N,O-bis(trimethylsilyl)trifluoroacetamide having 99.5% purity. The invention is applicable to organic synthesis.

IT Amides, preparation

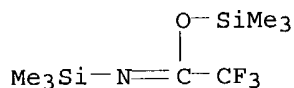
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of N,O-bis(trialkylsilyl)perfluoroacylamides)

IT 75-77-4, Chlorotrimethylsilane, reactions 354-38-1, Trifluoroacetamide  
RL: RCT (Reactant)

(for preparation of N,O-bis(trialkylsilyl)perfluoroacylamides)

IT 25561-30-2P, N,O-Bis(trimethylsilyl)trifluoroacetamide

RL: SPN (Synthetic preparation); **PREP (Preparation)**  
 (preparation of)  
 IT **25561-30-2P**, N,O-Bis(trimethylsilyl)trifluoroacetamide  
 RL: SPN (Synthetic preparation); **PREP (Preparation)**  
 (preparation of)  
 RN 25561-30-2 CAPLUS  
 CN Ethanimidic acid, 2,2,2-trifluoro-N-(trimethylsilyl)-, trimethylsilyl  
 ester (9CI) (CA INDEX NAME)



L5 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2000 ACS  
 ACCESSION NUMBER: 1986:591384 CAPLUS  
 DOCUMENT NUMBER: 105:191384  
 TITLE: Simultaneous production of carboxylic acid trimethyl  
 silyl esters and silylated carboxylic acid amides  
 INVENTOR(S): Koetzsch, Hans Joachim; Vahlensieck, Hans Joachim  
 PATENT ASSIGNEE(S): Dynamit Nobel A.-G., Fed. Rep. Ger.  
 SOURCE: Ger. Offen., 14 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3443961	A1	19860605	DE 1984-3443961	19841201
DE 3443961	C2	19861211		
US 4609749	A	19860902	US 1985-800979	19851122
GB 2167754	A1	19860604	GB 1985-29019	19851125
GB 2167754	B2	19890105		
FR 2574079	A1	19860606	FR 1985-17465	19851126
FR 2574079	B1	19900615		
JP 61134393	A2	19860621	JP 1985-267627	19851129
			DE 1984-3443961	19841201

PRIORITY APPLN. INFO.:

AB RCO<sub>2</sub>SiMe<sub>3</sub> (I) and RCONHSiMe<sub>3</sub> (II) (R = alkyl, alkenyl, haloalkyl), useful as silylating agents (no data), are prepared by silylation of (RCO)<sub>2</sub>O with (Me<sub>3</sub>Si)<sub>2</sub>NH (III) at 40-130°. Further silylation of II with Me<sub>3</sub>SiCl in the presence of a proton acceptor can give RCON(SiMe<sub>3</sub>)<sub>2</sub> (IV) or RC(OSiMe<sub>3</sub>):NSiMe<sub>3</sub> (V). Thus, 660 kg III was treated with 408 kg Ac<sub>2</sub>O at 72-90° under N and the resultant mixture was treated with 434 kg Me<sub>3</sub>SiCl in the presence of Me<sub>3</sub>N at 72° to give 512 kg I (R = Me) and a 799 kg mixture of IV and V (R = Me).

IT Silylation

(of anhydrides and amides, with trimethylsilyl chloride and hexamethyldisilazane)

IT 400-53-3P 2754-27-0P 10416-58-7P 10416-59-8P 13435-12-6P  
 13688-56-7P **21149-38-2P 25561-30-2P** 104890-13-3P  
 104890-14-4P

RL: SPN (Synthetic preparation); **PREP (Preparation)**  
 (preparation of, as silylating agent)

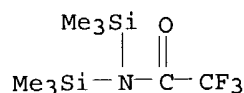
IT 75-77-4, uses and miscellaneous

RL: USES (Uses)  
 (silylating agent, for amides, silylamide derivs. from)

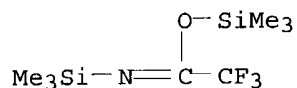
IT 999-97-3

RL: RCT (Reactant)  
 (silylating agent, for anhydrides, silylamide derivs. and silyl esters)

from)  
 IT 108-24-7 407-25-0 760-93-0  
 RL: RCT (Reactant)  
 (silylation of)  
 IT 21149-38-2P 25561-30-2P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, as silylating agent)  
 RN 21149-38-2 CAPLUS  
 CN Acetamide, 2,2,2-trifluoro-N,N-bis(trimethylsilyl)- (8CI, 9CI) (CA INDEX NAME)



RN 25561-30-2 CAPLUS  
 CN Ethanimidic acid, 2,2,2-trifluoro-N-(trimethylsilyl)-, trimethylsilyl ester (9CI) (CA INDEX NAME)



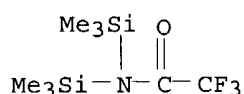
L5 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2000 ACS  
 ACCESSION NUMBER: 1986:591383 CAPLUS  
 DOCUMENT NUMBER: 105:191383  
 TITLE: Persilylated carboxylic acid amides  
 INVENTOR(S): Koetzsch, Hans Joachim; Vahlensieck, Hans Joachim  
 PATENT ASSIGNEE(S): Dynamit Nobel A.-G., Fed. Rep. Ger.  
 SOURCE: Ger. Offen., 11 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3443960	A1	19860605	DE 1984-3443960	19841201
DE 3443960	C2	19861211		
US 4647681	A	19870303	US 1985-800996	19851122
GB 2167753	A1	19860604	GB 1985-28960	19851125
GB 2167753	B2	19890105		
FR 2574078	A1	19860606	FR 1985-17464	19851126
FR 2574078	B1	19900511		
JP 61134392	A2	19860621	JP 1985-266283	19851128
JP 08016113	B4	19960221		

PRIORITY APPLN. INFO.: DE 1984-3443960 19841201  
 AB RCON(SiMe<sub>3</sub>)<sub>2</sub> (I) and RC(OSiMe<sub>3</sub>):NSiMe<sub>3</sub> (II) (R = H, alkyl, alkenyl, haloalkyl), useful as silylating agents (no data), are prepared by silylation of RCONH<sub>2</sub> with 2 equivs. Me<sub>3</sub>SiCl at 40-80° in the presence of a tertiary amine and (Me<sub>3</sub>Si)<sub>2</sub>NH (III). Thus, 9 kg HCONH<sub>2</sub>, 21.7 kg Me<sub>3</sub>SiCl, and 140 L III were heated at 48-56° under N in the presence of Me<sub>3</sub>N to give 92.9% I (R = H).

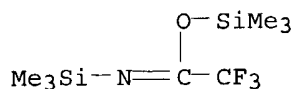
IT Silylation  
 (of amides, by trimethylsilyl chloride and hexamethyldilsilazane)  
 IT 10416-58-7P 15500-60-4P 17898-15-6P 21149-38-2P

26345-88-0P  
 RL: SPN (Synthetic preparation); **PREP (Preparation)**  
 (preparation of, as silylating agent)  
 IT 75-77-4, reactions 999-97-3  
 RL: RCT (Reactant)  
 (reaction of, with amides, silylamide derivs. from)  
 IT 60-35-5, reactions 75-12-7, reactions 79-05-0 79-06-1, reactions  
 354-38-1  
 RL: RCT (Reactant)  
 (silylation of)  
 IT **21149-38-2P**  
 RL: SPN (Synthetic preparation); **PREP (Preparation)**  
 (preparation of, as silylating agent)  
 RN 21149-38-2 CAPLUS  
 CN Acetamide, 2,2,2-trifluoro-N,N-bis(trimethylsilyl)- (8CI, 9CI) (CA INDEX  
 NAME)

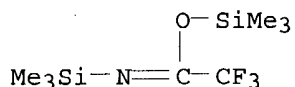


L5 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2000 ACS  
 ACCESSION NUMBER: 1980:106661 CAPLUS  
 DOCUMENT NUMBER: 92:106661  
 TITLE: Silylation of tryptamine and 5-hydroxytryptamine:  
 kinetic aspects and practical analytical implications  
 AUTHOR(S): Martinez, Emilio; Gelpi, Emilio  
 CORPORATE SOURCE: Inst. Biofis. Neurobiol., CSIC, Barcelona, 25, Spain  
 SOURCE: Adv. Chromatogr. (Houston) (1979), 14th, 677-96  
 CODEN: ACMGBR  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB An attempt is made to answer some practical kinetic and identification  
 questions on the trimethylsilylated (TMS) derivs. of tryptamine (T) and  
 5-hydroxytryptamine (5HT). Considering the theor. possible 5 and 11 TMS  
 derivs. of T and 5HT, resp., a gas chromatog.-mass spectrometric study of  
 these reaction profiles established the identification of the 5T derivs.  
 and of 6 of the 11 5HT possibilities. A kinetic approach using different  
 catalysts (trimethylsilylimidazole, trimethylchlorosilane, pyridine)  
 indicated that the ease of silylation would follow the order O5 > 1st  
 N0 position > N1 > 2nd N0 position. The best results were  
 obtained by reaction with a N,O-bis(trimethylsilyl)trifluoroacetamide-  
 trimethylsilylimidazole-pyridine mixture at 70° fr 60 min, which  
 enhanced the formation of the fully silylated derivs. The relative merits  
 of the silyl vs. the acyl derivs. of these amines are discussed in  
 relation to practical applications.  
 IT Kinetics of silylation  
 (of hydroxytryptamine and tryptamine)  
 IT Mass spectra  
 (of hydroxytryptamine and tryptamine silyl derivs.)  
 IT 75-77-4P, biological studies 343-94-2DP, silyl derivs. 1066-35-9P  
 3036-16-6DP, silyl derivs. 10416-59-8P 18156-74-6P **25561-30-2P**  
 RL: **PREP (Preparation)**  
 (preparation of, kinetics of)  
 IT **25561-30-2P**  
 RL: **PREP (Preparation)**  
 (preparation of, kinetics of)  
 RN 25561-30-2 CAPLUS  
 CN Ethanimidic acid, 2,2,2-trifluoro-N-(trimethylsilyl)-, trimethylsilyl  
 ester (9CI) (CA INDEX NAME)





L5 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2000 ACS  
 ACCESSION NUMBER: 1976:524025 CAPLUS  
 DOCUMENT NUMBER: 85:124025  
 TITLE: Preparation and structure of trimethylsilyl- and trifluoroacetyl-substituted ammonia and hydroxylamine  
 AUTHOR(S): Lidy, Werner; Sundermeyer, Wolfgang  
 CORPORATE SOURCE: Anorg.-Chem. Inst., Univ. Heidelberg, Heidelberg, Ger.  
 SOURCE: Chem. Ber. (1976), 109(7), 2542-6  
 CODEN: CHBEAM  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 AB (Me<sub>3</sub>Si)<sub>3</sub>N, ClN(SiMe<sub>3</sub>)<sub>2</sub>, and Me<sub>3</sub>SiON(SiMe<sub>3</sub>)<sub>2</sub> reacted with F<sub>3</sub>CCOCl to give, not the expected acylated amines but gave imides, RN:C(CF<sub>3</sub>)OSiMe<sub>3</sub> (R = F<sub>3</sub>CCO, Cl, Me<sub>3</sub>SiO, F<sub>3</sub>CCO<sub>2</sub>).  
 IT 25561-30-2P 60556-42-5P 60556-43-6P 60556-44-7P  
 60556-45-8P  
 RL: SPN (Synthetic preparation); **PREP (Preparation)**  
 (preparation of)  
 IT 354-32-5  
 RL: RCT (Reactant)  
 (reaction with silylamines)  
 IT 1070-89-9 1586-73-8 4148-01-0 21023-20-1  
 RL: RCT (Reactant)  
 (reaction with trifluoroacetyl chloride)  
 IT 25561-30-2P  
 RL: SPN (Synthetic preparation); **PREP (Preparation)**  
 (preparation of)  
 RN 25561-30-2 CAPLUS  
 CN Ethanimidic acid, 2,2,2-trifluoro-N-(trimethylsilyl)-, trimethylsilyl ester (9CI) (CA INDEX NAME)



L5 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2000 ACS  
 ACCESSION NUMBER: 1970:66309 CAPLUS  
 DOCUMENT NUMBER: 72:66309  
 TITLE: Preparation and properties of N-heptafluoroisopropyl and N-trifluoroacetyl sulfur dichloride imide and sulfur oxide imide, and N,O-bis(trimethylsilyl)trifluoroacetimide  
 AUTHOR(S): Von Halasz, Sigmar P.; Glemser, Oskar  
 CORPORATE SOURCE: Anorg.-Chem. Inst., Univ. Goettingen, Goettingen, Ger.  
 SOURCE: Chem. Ber. (1970), 103(2), 553-60  
 CODEN: CHBEAM  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 AB (CF<sub>3</sub>)<sub>2</sub>CFN:SCl<sub>2</sub> was prepared in 54% yield from (CF<sub>3</sub>)<sub>2</sub>CFN:SF<sub>2</sub> and PCl<sub>5</sub>. (CF<sub>3</sub>)<sub>2</sub>C:NH reacted with F<sub>2</sub>SO to give 23% (CF<sub>3</sub>)<sub>2</sub>CFN:SO. CF<sub>3</sub>CON:SCl<sub>2</sub> is partly converted by CsF and Cl to CF<sub>3</sub>CON:SF<sub>2</sub>. CF<sub>3</sub>CON:SO was obtained

in 21% yield from Cl<sub>2</sub>SO and CF<sub>3</sub>C(OSiMe<sub>3</sub>):NSiMe<sub>3</sub> (I), which was prepared from CF<sub>3</sub>CONH<sub>2</sub> and ClSiMe<sub>3</sub> in the presence of NEt<sub>3</sub>. The <sup>1</sup>H- and <sup>19</sup>F-NMR spectra suggest the imide structure for I rather than the amide structure.

IT 25561-30-2P 26454-66-0P 26454-67-1P 26454-68-2P

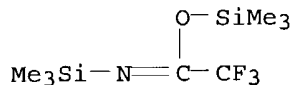
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

IT 25561-30-2P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 25561-30-2 CAPLUS

CN Ethanimidic acid, 2,2,2-trifluoro-N-(trimethylsilyl)-, trimethylsilyl ester (9CI) (CA INDEX NAME)



L5 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 1969:57999 CAPLUS

DOCUMENT NUMBER: 70:57999

TITLE: Bis(trimethylsilyl)trifluoroacetamide

INVENTOR(S): Gehrke, Charles W.; Stalling, David L.

PATENT ASSIGNEE(S): Research Corp.

SOURCE: U.S., 1 p.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3415864	A	19681210	US 1967-666975	19670911
GB 1194105	A	19700610	GB 1968-1194105	19680829
			US 1967-666975	19670911

PRIORITY APPLN. INFO.:

AB Et<sub>3</sub>N (270 ml.) was added to 146 g. Me<sub>3</sub>SiCl and the mixture slowly added to 58 g. CF<sub>3</sub>CONH<sub>2</sub> under anhydrous conditions and refluxed. The mixture was filtered and distilled in vacuo to yield CF<sub>3</sub>CON(SiMe<sub>3</sub>)<sub>2</sub> (I), b<sub>27</sub> 47°. I has application as a reagent for making Me<sub>3</sub>Si-derivs. of amino acids for gas liquid chromatog.

IT 21149-38-2P

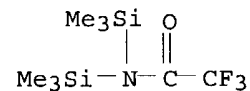
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

IT 21149-38-2P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 21149-38-2 CAPLUS

CN Acetamide, 2,2,2-trifluoro-N,N-bis(trimethylsilyl)- (8CI, 9CI) (CA INDEX NAME)



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L15 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 1992:235863 CAPLUS  
DOCUMENT NUMBER: 116:235863  
TITLE: Preparation of N,O-bis(tertiary-butyl-  
dimethylsilyl)trifluoroacetamide  
INVENTOR(S): Endo, Mikio; Ishihara, Toshinobu; Hayashida, Akira;  
Shinohara, Norio  
PATENT ASSIGNEE(S): Shin-Etsu Chemical Industry Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03287592	A2	19911218	JP 1990-90687	19900405
JP 2799619	B2	19980921		

OTHER SOURCE(S): CASREACT 116:235863; MARPAT 116:235863

AB The title compound (I) was prepared by reaction of CF<sub>3</sub>CONH<sub>2</sub> or CF<sub>3</sub>CONHSiMe<sub>2</sub>CMe<sub>3</sub> (II) with RMgX (R = hydrocarbyl, X = halo) followed by treatment with Me<sub>2</sub>CMe<sub>2</sub>SiCl. Thus, II was treated with MeMgCl in THF at 0-40° for 15 min followed by treatment with Me<sub>3</sub>CMe<sub>2</sub>SiCl at 70° for 1.5 h to give 85% I.

IT 87020-42-6P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

IT 18162-48-6, tert-Butyldimethylchlorosilane

RL: RCT (Reactant)  
(reaction of, with (butyldimethylsilyl)trifluoroacetamide)

IT 354-38-1 83170-48-3

RL: RCT (Reactant)  
(reaction of, with methylmagnesium chloride and butyldimethylsilyl chloride)

IT 676-58-4, Methylmagnesium chloride

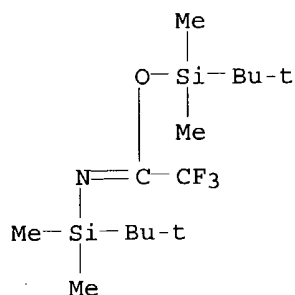
RL: RCT (Reactant)  
(reaction of, with trifluoroacetamide derivative and butyldimethylsilyl chloride)

IT 87020-42-6P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 87020-42-6 CAPLUS

CN Ethanimidic acid, N-[(1,1-dimethylethyl)dimethylsilyl]-2,2,2-trifluoro-,  
(1,1-dimethylethyl)dimethylsilyl ester (9CI) (CA INDEX NAME)



L16 ANSWER 1 OF 3 CASREACT COPYRIGHT 2000 ACS

ACCESSION NUMBER: 129:67865 CASREACT

TITLE: Preparation of N,O-bis(trialkylsilyl)perfluoroacylamides

INVENTOR(S): Forat, Gerard

PATENT ASSIGNEE(S): Rhodia Chimie, Fr.; Forat, Gerard

SOURCE: PCT Int. Appl., 14 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9825936	A1	19980618	WO 1997-FR2276	19971211
W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HU, ID, IL, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
FR 2757167	A1	19980619	FR 1996-15279	19961212
FR 2757167	B1	19990122		
AU 9854887	A1	19980703	AU 1998-54887	19971211
EP 946571	A1	19991006	EP 1997-951313	19971211
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				

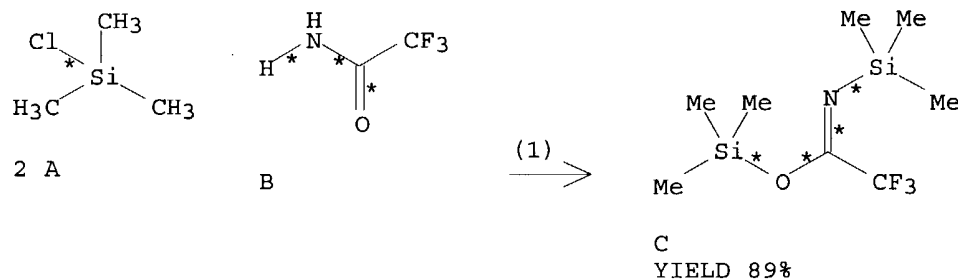
PRIORITY APPLN. INFO.:

FR 1996-15279 19961212  
WO 1997-FR2276 19971211

OTHER SOURCE(S): MARPAT 129:67865

AB The invention concerns the synthesis of N,O-bis(trialkylsilyl)perfluoroacylamides, R<sub>1</sub>R<sub>2</sub>R<sub>3</sub>SiN:C(Rf)OSiR<sub>1</sub>R<sub>2</sub>R<sub>3</sub> (R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> = C<sub>1</sub>-10 alkyl; Rf = (CX<sub>2</sub>)<sub>p</sub>GEA (X = same or different F, CnF<sub>2n+1</sub> (n = ≤5), p = ≤2; GEA = electron-attracting group, e.g. F or CnF<sub>2n+1</sub>)) which consists in: reacting an amide bearing a Rf group with a trialkylsilyl halide in the presence of a base whose halide, or halohydrate, is insol. in the medium and in the presence of a nonpolar and nonhydrophilic solvent. For example, a mixture of 0.2 mol CF<sub>3</sub>C(O)NH<sub>2</sub> and 0.6 mol Et<sub>3</sub>N was added at 14 mL/h to 0.8 mol Me<sub>3</sub>SiCl in 120 mL pentane to maintain reflux and after addition the mixture was heated at reflux for 11.5 h to yield 89% N,O-bis(trimethylsilyl)trifluoroacetamide having 99.5% purity. The invention is applicable to organic synthesis.

RX(1) OF 1 2 A + B ==> C



RX(1) RCT A 75-77-4, B 354-38-1  
 RGT D 121-44-8 Et3N  
 PRO C 25561-30-2  
 SOL 109-66-0 Pentane

L16 ANSWER 2 OF 3 CASREACT COPYRIGHT 2000 ACS

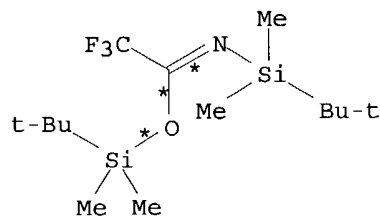
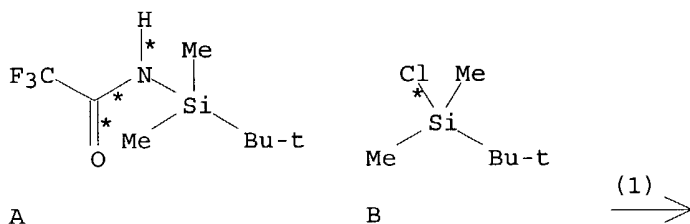
ACCESSION NUMBER: 116:235863 CASREACT  
 TITLE: Preparation of N,O-bis(tertiary-butyl-  
 dimethylsilyl)trifluoroacetamide  
 INVENTOR(S): Endo, Mikio; Ishihara, Toshinobu; Hayashida, Akira;  
 Shinohara, Norio  
 PATENT ASSIGNEE(S): Shin-Etsu Chemical Industry Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03287592	A2	19911218	JP 1990-90687	19900405
JP 2799619	B2	19980921		

OTHER SOURCE(S): MARPAT 116:235863

AB The title compound (I) was prepared by reaction of CF<sub>3</sub>CONH<sub>2</sub> or CF<sub>3</sub>CONHSiMe<sub>2</sub>CMe<sub>3</sub> (II) with RMgX (R = hydrocarbyl, X = halo) followed by treatment with Me<sub>2</sub>CMe<sub>2</sub>SiCl. Thus, II was treated with MeMgCl in THF at 0-40° for 15 min followed by treatment with Me<sub>3</sub>CMe<sub>2</sub>SiCl at 70° for 1.5 h to give 85% I.

RX(1) OF 2 A + B ==> C



C  
 YIELD 85%

RX(1) RCT A 83170-48-3

## STAGE(1)

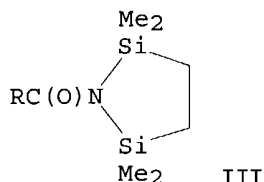
RGT D 676-58-4 MeMgCl  
SOL 109-99-9 THF

## STAGE(2)

RCT B 18162-48-6  
SOL 109-99-9 THF  
PRO C 87020-42-6

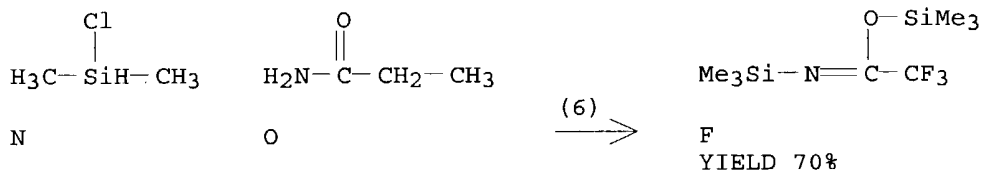
L16 ANSWER 3 OF 3 CASREACT COPYRIGHT 2000 ACS

ACCESSION NUMBER: 110:8265 CASREACT  
TITLE: The structure of bis(organosilyl)amides containing the dimethylsilyl and bis(dimethylsilyl)ethylene groups  
AUTHOR(S): Samples, Marjorie S.; Yoder, Claude H.  
CORPORATE SOURCE: Dep. Chem., Franklin and Marshall Coll., Lancaster, PA, 17604, USA  
SOURCE: J. Organomet. Chem. (1987), 332(1-2), 69-73  
CODEN: JORCAI; ISSN: 0022-328X  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
GI



AB Bis(dimethylsilyl)amide  $\text{RCON}(\text{SiMe}_2\text{H})_2$  (I, R = Et) was prepared by amination of  $\text{Me}_2\text{SiHCl}$  with  $\text{EtCONH}_2$  in the presence of  $\text{Et}_3\text{N}$ . I (R = Et, Me) and  $\text{R}_1\text{CON}(\text{SiMe}_3)_2$  (II,  $\text{R}_1 = \text{H}$ ) exist in the amide form and undergo rapid rotation around the C-N bond. II ( $\text{R}_1 = \text{Me}$ ) exists in the imide form. The reaction of several bis(trimethylsilyl)amides with  $\text{Me}_2\text{SiClCH}_2\text{CH}_2\text{SiMe}_2\text{Cl}$  also produced amides III (R = H, Me,  $\text{CF}_3$ ) containing a 5-membered silazane ring. Structures were determined by  $^{13}\text{C}$ ,  $^{29}\text{Si}$ ,  $^{14}\text{N}$ , and  $^{17}\text{O}$  NMR, and free energies of activation for hindered rotation were determined by variable temperature  $^{13}\text{C}$  or  $^{29}\text{Si}$  NMR. The difference in structure can be attributed to the spatial requirements of the groups attached to Si.

RX(6) OF 7 N + O ==&gt; F...



RX(6) RCT N 1066-35-9, O 79-05-0  
RGT P 121-44-8 Et3N  
PRO F 25561-30-2  
SOL 71-43-2 Benzene

=> file beilstein

FILE 'BEILSTEIN' TEMPORARILY UNAVAILABLE  
SESSION CONTINUES IN FILE 'CASREACT'

If this message appears repeatedly, please notify the Help Desk.  
Enter "HELP STN" for information on contacting the nearest STN Help  
Desk by telephone or via SEND in the STNMAIL file.

=> s epsilon dielectric constant

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539 EPSILON
26 DIELECTRIC
3 DIELECTRICS
29 DIELECTRIC
(DIELECTRIC OR DIELECTRICS)
635 CONSTANT
81 CONSTANTS
698 CONSTANT
(CONSTANT OR CONSTANTS)
L17      0 EPSILON DIELECTRIC CONSTANT
(EPSILON(W) DIELECTRIC(W) CONSTANT)
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=> s dielectric constant

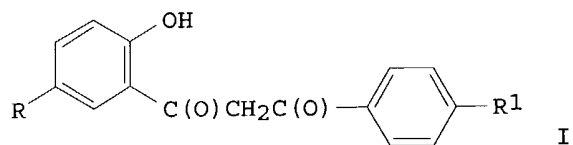
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26 DIELECTRIC
3 DIELECTRICS
29 DIELECTRIC
(DIELECTRIC OR DIELECTRICS)
635 CONSTANT
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698 CONSTANT
(CONSTANT OR CONSTANTS)
L18      14 DIELECTRIC CONSTANT
(DIELECTRIC(W) CONSTANT)
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=> s l18 and solvent

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12249 SOLVENT
4632 SOLVENTS
14789 SOLVENT
(SOLVENT OR SOLVENTS)
L19      10 L18 AND SOLVENT
```

=> d ibib abs 10

L19 ANSWER 10 OF 10 CASREACT COPYRIGHT 2000 ACS  
ACCESSION NUMBER: 108:75258 CASREACT  
TITLE: Reaction of 2-hydroxydibenzoylmethanes with  
hydroxylamine hydrochloride in DMF-water.  
**Dielectric constant dependent**  
products: isoxazole and benzisoxazole  
AUTHOR(S): Naphade, V. J.; Ghiya, B. J.  
CORPORATE SOURCE: Inst. Sci., Nagpur, 440 001, India  
SOURCE: J. Indian Chem. Soc. (1986), 63(9), 851-3  
CODEN: JICSAH; ISSN: 0019-4522  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
GI



AB Hydroxydibenzoylmethanes (I; R1, R1 given: Me, MeO; Me, H; H, MeO; H, H) react with  $\text{NH}_2\text{OH}\cdot\text{HCl}$  in DMF, aqueous DMF and N-methylacetamide to yield isoxazoles and benzisoxazoles. **Solvent** effects on product yields were discussed.

=> d ibib abs 9

L19 ANSWER 9 OF 10 CASREACT COPYRIGHT 2000 ACS

ACCESSION NUMBER: 118:21809 CASREACT  
 TITLE: Kinetics of oxidation of thioacetic acid by methylene blue in methanol-water medium  
 AUTHOR(S): Chansoria, K.; Mishra, K. K.  
 CORPORATE SOURCE: Dep. Postgrad. Stud. Res. Chem., R D Univ., Jabalpur, 482 001, India  
 SOURCE: Indian J. Chem., Sect. A: Inorg., Bio-inorg., Phys., Theor. Anal. Chem. (1992), 31A(9), 728-31  
 CODEN: ICACEC

DOCUMENT TYPE: Journal  
 LANGUAGE: English

AB The title reaction kinetics, to give the corresponding disulfide and the dye leuco base were determined. The pseudo 2-nd order rate constant increases linearly with the  $\text{H}^+$  concentration; the 0.5 rate constant has a fractional order dependence on the  $\text{H}^+$  concentration at low  $\text{H}^+$  concns. is again linear in  $\text{H}^+$  concentration at  $\geq 4.0 \times 10^{-2} \text{ mol dm}^{-3}$ . The pseudo 2-nd order rate constant decreases to a limiting value as the medium's dielec. constant decreases; the 0.5 order process continuously decreases. Me methacrylate does not affect the initial reaction rate; it retards rate of the latter part of the reaction.

=> d ibib abs 6-8

L19 ANSWER 6 OF 10 CASREACT COPYRIGHT 2000 ACS

ACCESSION NUMBER: 119:249389 CASREACT  
 TITLE: Medium effect on the kinetics and mechanism of oxidation of thiocarbohydrazide by chloramine-B  
 AUTHOR(S): Gowda, B. Thimme; Panicker, B. K.; Pardhasaradhi, V.  
 CORPORATE SOURCE: Dep. Post-Grad. Stud. Res. Chem., Mangalore Univ., Mangalagangothri, 574 199, India  
 SOURCE: Oxid. Commun. (1993), 16(1-2), 44-61  
 CODEN: OXCOW; ISSN: 0209-4541

DOCUMENT TYPE: Journal  
 LANGUAGE: English

AB Medium effect on the kinetics and mechanism of oxidation of thiocarbohydrazide (TCH) by chloramine-B has been investigated in various binary **solvent** mixts. of varying compns. ranging from 1:9 to 7:3. The **solvent** mixts. employed are aquo-methanol, aquo-ethanol, aquo-i-propanol and aquo-t-butanol. The rate dependences in



[oxidant], [TCH] and [H+] have been determined in each of these media under varying compns. The rates have also been determined at varying temperature in all the compns. Mechanisms consistent with the observed results are discussed. The coeffs. of the rate determining steps have been calculated as functions of **solvent**, their composition and temperature. The activation parameters corresponding to these consts. are also calculated in all the **solvents** at varying **solvent** compns. Both the rate coeffs. and the activation parameters under varying conditions have been correlated. The validity of isokinetic relationship has also been tested.

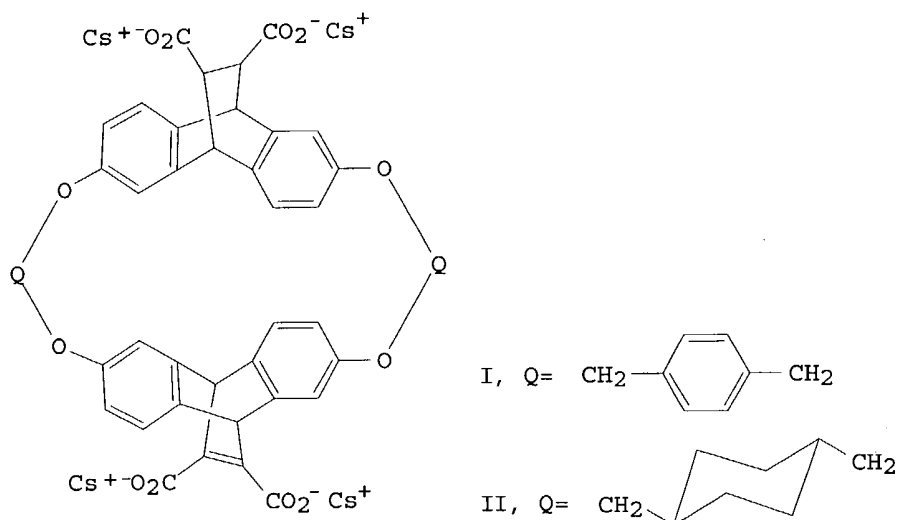
L19 ANSWER 7 OF 10 CASREACT COPYRIGHT 2000 ACS

ACCESSION NUMBER: 119:202916 CASREACT  
TITLE: Proton-transfer dynamics in substituted  
3-hydroxyflavones: **solvent** polarization  
effects  
AUTHOR(S): Swinney, T. C.; Kelley, D. F.  
CORPORATE SOURCE: Dep. Chem., Colorado State Univ., Fort Collins, CO,  
80523, USA  
SOURCE: J. Chem. Phys. (1993), 99(1), 211-21  
CODEN: JCPSA6; ISSN: 0021-9606  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB The spectroscopy and excited state proton transfer (ESPT) dynamics of 4'-N,N-dimethylamino-3-hydroxyflavone and 4'-N,N-diethylamino-3-hydroxyflavone have been studied in acetonitrile/benzene **solvent** mixts. **Solvent** composition-dependent spectral shifts are observed and can be understood in terms of an Onsager cavity model. Anal. of these spectral shifts accurately predicts **solvent** composition-dependent excited state equilibrium consts., which are also exptl. determined. The ESPT rates are analyzed within the framework of a transition state theory treatment of **solvent** polarization-mediated proton transfer. This treatment is analogous to electron transfer theory. In this treatment, the energetics of the transition state are largely determined by known **solvent** properties and the **solvent**-dependent spectroscopy. This anal. yields **solvent**-dependent ESPT activation energies. The corresponding calculated ESPT rates are in excellent agreement with the exptl. determined rates.

L19 ANSWER 8 OF 10 CASREACT COPYRIGHT 2000 ACS

ACCESSION NUMBER: 118:38252 CASREACT  
TITLE: Biomimetic catalysis of SN2 reactions through  
cation- $\pi$  interactions. The role of polarizability  
in catalysis  
AUTHOR(S): McCurdy, Alison; Jimenez, Leslie; Stauffer, David A.;  
Dougherty, Dennis A.  
CORPORATE SOURCE: Arnold and Mabel Beckman Lab. Chem. Synth., California  
Inst. Technol., Pasadena, CA, 91125, USA  
SOURCE: J. Am. Chem. Soc. (1992), 114(26), 10314-21  
CODEN: JACSAT; ISSN: 0002-7863  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
GI



AB Cyclophane hosts I and II are effective catalysts for both the alkylation of quinoline structures to produce quinolinium salts and the dealkylation of sulfonium salts to produce sulfides. Reactions that develop pos. charge in the transition state and reactions that destroy pos. charge are accelerated by I or II. The former observation is not surprising, given the well-documented ability of these hosts to bind cations through the cation- $\pi$  interaction. The catalysis of the dealkylation reactions, however, along with several other observations, suggests that some other factor is involved in the catalysis. It is proposed that the high polarizability of the transition states is well matched to the very polarizable hosts and that this contributes to the catalysis.

=> s pniictine

L20 1 PNICTINE

=> d ibib abs

L20 ANSWER 1 OF 1 CASREACT COPYRIGHT 2000 ACS

ACCESSION NUMBER: 119:95818 CASREACT

TITLE: Preparation of organosilanes from catalytic silylation of organic halides with disilanes

INVENTOR(S): Babin, Pierre; Bennetau, Bernard; Dunogues, Jacques

PATENT ASSIGNEE(S): Rhone-Poulenc Chimie, Fr.

SOURCE: Fr. Demande, 14 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2677358	A1	19921211	FR 1991-6787	19910605
FR 2677358	B1	19940930		

OTHER SOURCE(S): MARPAT 119:95818

AB Organosilyl derivs. are prepared by reaction of ArX [Ar = certain carbocycles (un)substituted by F, -CN, perfluoroalkyl, or Ar = certain

nitrogen heterocycles; X = Cl, I, or preferably Br] with disilanes  $R_1R_2R_3SiSiR_4R_5R_6$  [ $R_1-R_6$  = hydrocarbon chain, (un)functionalized cycloalkyl or aralkyl, Cl, with the condition that at least one of  $R_1$  and  $R_4 \neq Cl$ ] in the presence of a catalyst comprising a Group VIII metal **pnictine** complex (platinum-group metal with **pnictine** being a phosphine preferred) with or without solvent (preferably an aprotic solvent, e.g., hexamethylphosphorotriamide). Thus, reaction of 10 mmol 4-F<sub>3</sub>CC<sub>6</sub>H<sub>4</sub>Br with 17 mmol (EtO)<sub>2</sub>SiMeSiMe(OEt)<sub>2</sub> for 15 h at 160° in a dried tube in the presence of palladium catalyst (unspecified) gave 4-F<sub>3</sub>CC<sub>6</sub>H<sub>4</sub>SiMe(OEt)<sub>2</sub> in 70% yield. A number of trimethylsilyl-substituted benzene and heterocycle derivs. were prepared by this method in high yields.

=> s 14/prep

175 L4  
2642631 PREP/RL  
L5 10 L4/PREP  
(L4 (L) PREP/RL)

=> d ibib abs hitstr 1-10

L5 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2000 ACS  
ACCESSION NUMBER: 1999:116666 CAPLUS  
DOCUMENT NUMBER: 130:153791  
TITLE: Method for preparation of silylated carboxylic acid amides  
INVENTOR(S): Winterfeld, Joern; Loskot, Stephan; Menzel, Hartmut; Reitmeier, Rudolf  
PATENT ASSIGNEE(S): Wacker-Chemie G.m.b.H., Germany  
SOURCE: Ger., 8 pp.  
CODEN: GWXXAW  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19807021	C1	19990211	DE 1998-19807021	19980219
EP 937730	A2	19990825	EP 1998-121577	19981119
EP 937730	A3	19991013		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO

PRIORITY APPLN. INFO.: DE 1998-19807021 19980219

OTHER SOURCE(S): CASREACT 130:153791

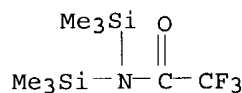
AB The preparation of title compds. via reaction of carboxylic acid chloride with disilazane in the presence of carbonyl group activator is described. Thus, reaction of acetyl chloride with hexamethyldisilazane in the presence of pyridine and Me<sub>3</sub>SiCl/Me<sub>3</sub>N gave 90% N,N- as well as N,O-bis(trimethylsilyl)acetamide.

IT 21149-38-2P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of silylated carboxylic acid amide via carbonyl group activator promoted reaction of carboxylic acid chloride with disilazane)

RN 21149-38-2 CAPLUS

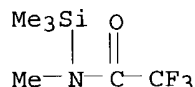
CN Acetamide, 2,2,2-trifluoro-N,N-bis(trimethylsilyl)- (8CI, 9CI) (CA INDEX NAME)



L5 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2000 ACS  
ACCESSION NUMBER: 1993:60312 CAPLUS  
DOCUMENT NUMBER: 118:60312  
TITLE: Manufacture of heat- and chemically resistant imides  
INVENTOR(S): Nozaki, Choji  
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
CODEN: JKXXAF

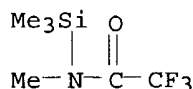
DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 04187673	A2	19920706	JP 1990-319746	19901122
AB	The title imides (poly-, bis-, and monoimides) are manufactured by treating amic acids with trialkylsilylating agents. Thus, a AcNMe <sub>2</sub> solution of 0.137 g biphenyltetracarboxylic acid-bisphenol AF polyamic acid and 1.0 g CF <sub>3</sub> CONMeSiMe <sub>3</sub> was coated on a KBr plate and heated in vacuo at 100° for 1 h to give a silylated polyimide.				
IT	<b>24589-78-4DP</b> , N-Methyl-N-(trimethylsilyl)trifluoroacetamide, reaction products with amic acids RL: <b>PREP (Preparation)</b> (chemical and heat-resistant, manufacture of)				
RN	24589-78-4 CAPLUS				
CN	Acetamide, 2,2,2-trifluoro-N-methyl-N-(trimethylsilyl)- (8CI, 9CI) (CA INDEX NAME)				



L5 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 1990:405668 CAPLUS  
 DOCUMENT NUMBER: 113:5668  
 TITLE: On some new trifluoromethyl iodine(III) compounds: reactions of CF<sub>3</sub>IF<sub>2</sub> with boron and silicon compounds and CF<sub>3</sub>ICl<sub>2</sub> with silver salts  
 AUTHOR(S): Tyrre, Wieland; Naumann, Dieter  
 CORPORATE SOURCE: Fachbereich Chem., Univ. Dortmund, Dortmund, D-4600/50, Fed. Rep. Ger.  
 SOURCE: J. Fluorine Chem. (1989), 45(3), 401-16  
 CODEN: JFLCAR; ISSN: 0022-1139  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 113:5668  
 AB CF<sub>3</sub>IF<sub>2</sub> undergoes fluorine exchange reactions with BX<sub>3</sub> (X = Cl, Br, I, OCOCF<sub>3</sub>) to form CF<sub>3</sub>IX<sub>2</sub>. The reactions of CF<sub>3</sub>IF<sub>2</sub> with (CF<sub>3</sub>)<sub>2</sub>BN(CH<sub>3</sub>)<sub>2</sub>, (CH<sub>3</sub>)<sub>3</sub>SiNCO and (CH<sub>3</sub>)<sub>3</sub>SiN(CH<sub>3</sub>)COCF<sub>3</sub> yield the corresponding new trifluoromethyl iodine(III) nitrogen compds. CF<sub>3</sub>ICl<sub>2</sub> was prepared by reacting CF<sub>3</sub>IF<sub>2</sub> with (CH<sub>3</sub>)<sub>3</sub>SiCl. CF<sub>3</sub>ICl<sub>2</sub> reacts with AgX (X = O<sub>2</sub>CCF<sub>3</sub>, SCF<sub>3</sub>) to yield the corresponding CF<sub>3</sub>IX<sub>2</sub> compds.; with (C<sub>6</sub>H<sub>5</sub>)<sub>4</sub>AsCl, the novel ion [CF<sub>3</sub>ICl<sub>3</sub>]<sup>-</sup> is detected. Products were identified by NMR. CF<sub>3</sub>I(NCO)<sub>2</sub> explosively decomp. when warmed to room temperature  
 IT **24589-78-4P**  
 RL: FORM (Formation, nonpreparative); **PREP (Preparation)**  
 (formation of, in reactions of difluoro(trifluoromethyl)iodine)  
 RN 24589-78-4 CAPLUS  
 CN Acetamide, 2,2,2-trifluoro-N-methyl-N-(trimethylsilyl)- (8CI, 9CI) (CA INDEX NAME)



L5 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 1987:496883 CAPLUS  
DOCUMENT NUMBER: 107:96883  
TITLE: N-Methyl-N-(trimethylsilyl)trifluoroacetamide  
INVENTOR(S): Shinohara, Norio; Inoue, Yoshibumi  
PATENT ASSIGNEE(S): Shin-Etsu Chemical Industry Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

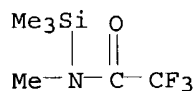
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62042991	A2	19870224	JP 1985-182740	19850820
JP 63027354	B4	19880602		
US 32717	E	19880719	US 1987-109775	19871019
PRIORITY APPLN. INFO.:			JP 1985-182740	19850820
			US 1986-896280	19860814

AB The title compound (I), useful as a reagent for antibiotics synthesis (no data), is prepared by heating F3CCONHMe (II) with N,O-bis(trimethylsilyl)acetamide (III). A solution of 254 g II and 258 g III in 400 mL C6H6 was stirred at 80° for 3 h to give 91% I.

IT 24589-78-4P, N-Methyl-N-(trimethylsilyl)trifluoroacetamide  
RL: SPN (Synthetic preparation); **PREP (Preparation)**  
(preparation of, as silylating agent for antibiotic synthesis)

RN 24589-78-4 CAPLUS

CN Acetamide, 2,2,2-trifluoro-N-methyl-N-(trimethylsilyl)- (8CI, 9CI) (CA INDEX NAME)



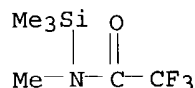
L5 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 1987:459249 CAPLUS  
DOCUMENT NUMBER: 107:59249  
TITLE: Method for the preparation of N-methyl-N-(trimethylsilyl)trifluoroacetamide  
INVENTOR(S): Shinohara, Toshio; Inoue, Yoshifumi  
PATENT ASSIGNEE(S): Shin-Etsu Chemical Industry Co., Ltd., Japan  
SOURCE: U.S., 3 pp.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4663471	A	19870505	US 1986-896280	19860814
US 32717	E	19880719	US 1987-109775	19871019
PRIORITY APPLN. INFO.:			JP 1985-182740	19850820
			US 1986-896280	19860814

AB The title compound (I) is prepared by silylation of N-methyltrifluoroacetamide (II) with N,O-bis(trimethylsilyl)acetamide (III) at 40-130°. I was produced in 91% yield by reaction of 2 mol II and 2.6 mol III at

80° for 3 h.  
 IT **24589-78-4P**  
 RL: SPN (Synthetic preparation); **PREP (Preparation)**  
 (preparation of, by silylation of methyltrifluoroacetamide with  
 N,O-bis(trimethylsilyl)acetamide)  
 RN 24589-78-4 CAPLUS  
 CN Acetamide, 2,2,2-trifluoro-N-methyl-N-(trimethylsilyl)- (8CI, 9CI) (CA  
 INDEX NAME)

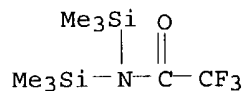


L5 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2000 ACS  
 ACCESSION NUMBER: 1986:591384 CAPLUS  
 DOCUMENT NUMBER: 105:191384  
 TITLE: Simultaneous production of carboxylic acid trimethyl  
 silyl esters and silylated carboxylic acid amides  
 INVENTOR(S): Koetzsch, Hans Joachim; Vahlensieck, Hans Joachim  
 PATENT ASSIGNEE(S): Dynamit Nobel A.-G., Fed. Rep. Ger.  
 SOURCE: Ger. Offen., 14 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3443961	A1	19860605	DE 1984-3443961	19841201
DE 3443961	C2	19861211		
US 4609749	A	19860902	US 1985-800979	19851122
GB 2167754	A1	19860604	GB 1985-29019	19851125
GB 2167754	B2	19890105		
FR 2574079	A1	19860606	FR 1985-17465	19851126
FR 2574079	B1	19900615		
JP 61134393	A2	19860621	JP 1985-267627	19851129
			DE 1984-3443961	19841201

PRIORITY APPLN. INFO.:  
 AB RCO<sub>2</sub>SiMe<sub>3</sub> (I) and RCONHSiMe<sub>3</sub> (II) (R = alkyl, alkenyl, haloalkyl), useful  
 as silylating agents (no data), are prepared by silylation of (RCO)<sub>2</sub>O with  
 (Me<sub>3</sub>Si)<sub>2</sub>NH (III) at 40-130°. Further silylation of II with Me<sub>3</sub>SiCl  
 in the presence of a proton acceptor can give RCON(SiMe<sub>3</sub>)<sub>2</sub> (IV) or  
 RC(OSiMe<sub>3</sub>):NSiMe<sub>3</sub> (V). Thus, 660 kg III was treated with 408 kg Ac<sub>2</sub>O at  
 72-90° under N and the resultant mixture was treated with 434 kg  
 Me<sub>3</sub>SiCl in the presence of Me<sub>3</sub>N at 72° to give 512 kg I (R = Me)  
 and a 799 kg mixture of IV and V (R = Me).

IT **21149-38-2P**  
 RL: SPN (Synthetic preparation); **PREP (Preparation)**  
 (preparation of, as silylating agent)  
 RN 21149-38-2 CAPLUS  
 CN Acetamide, 2,2,2-trifluoro-N,N-bis(trimethylsilyl)- (8CI, 9CI) (CA INDEX  
 NAME)

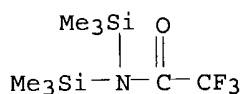


L5 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 1986:591383 CAPLUS  
DOCUMENT NUMBER: 105:191383  
TITLE: Persilylated carboxylic acid amides  
INVENTOR(S): Koetzsch, Hans Joachim; Vahlensieck, Hans Joachim  
PATENT ASSIGNEE(S): Dynamit Nobel A.-G., Fed. Rep. Ger.  
SOURCE: Ger. Offen., 11 pp.  
CODEN: GWXXBX  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3443960	A1	19860605	DE 1984-3443960	19841201
DE 3443960	C2	19861211		
US 4647681	A	19870303	US 1985-800996	19851122
GB 2167753	A1	19860604	GB 1985-28960	19851125
GB 2167753	B2	19890105		
FR 2574078	A1	19860606	FR 1985-17464	19851126
FR 2574078	B1	19900511		
JP 61134392	A2	19860621	JP 1985-266283	19851128
JP 08016113	B4	19960221		

PRIORITY APPLN. INFO.: DE 1984-3443960 19841201  
AB RCON(SiMe<sub>3</sub>)<sub>2</sub> (I) and RC(OSiMe<sub>3</sub>):NSiMe<sub>3</sub> (II) (R = H, alkyl, alkenyl, haloalkyl), useful as silylating agents (no data), are prepared by silylation of RCONH<sub>2</sub> with 2 equivs. Me<sub>3</sub>SiCl at 40-80° in the presence of a tertiary amine and (Me<sub>3</sub>Si)<sub>2</sub>NH (III). Thus, 9 kg HCONH<sub>2</sub>, 21.7 kg Me<sub>3</sub>SiCl, and 140 L III were heated at 48-56° under N in the presence of Me<sub>3</sub>N to give 92.9% I (R = H).  
IT 21149-38-2P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of, as silylating agent)  
RN 21149-38-2 CAPLUS  
CN Acetamide, 2,2,2-trifluoro-N,N-bis(trimethylsilyl)- (8CI, 9CI) (CA INDEX NAME)

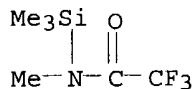


L5 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 1977:467465 CAPLUS  
DOCUMENT NUMBER: 87:67465  
TITLE: Orientation effects in charge transfer interactions.  
11. Stereoisomeric quinhydrones of the [2.2](1,4)naphthalenophane series  
AUTHOR(S): Staab, Heinz A.; Herz, Claus P.  
CORPORATE SOURCE: Abt. Org. Chem., Max-Planck-Inst. Med. Forsch., Heidelberg, Ger.  
SOURCE: Angew. Chem. (1977), 89(6), 406-7  
CODEN: ANCEAD  
DOCUMENT TYPE: Journal  
LANGUAGE: German  
GI For diagram(s), see printed CA Issue.  
AB Both I and II show similar charge-transfer bands in the 500-700 nm region; these results are rationalized in terms of a weak donor-acceptor interaction through space in these systems.



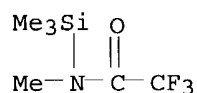
IT 24589-78-4P  
 RL: SPN (Synthetic preparation); **PREP (Preparation)**  
 (preparation of)  
 RN 24589-78-4 CAPLUS  
 CN Acetamide, 2,2,2-trifluoro-N-methyl-N-(trimethylsilyl)- (8CI, 9CI) (CA  
 INDEX NAME)



L5 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2000 ACS  
 ACCESSION NUMBER: 1972:59694 CAPLUS  
 DOCUMENT NUMBER: 76:59694  
 TITLE: Organosilicon compounds. XLVI. New synthesis of  
 heptamethyldisilazane and N-methyl-N-  
 (trimethylsilyl)trifluoroacetamide  
 AUTHOR(S): Birkofer, Leonhard; Schmidtberg, Guenter  
 CORPORATE SOURCE: Inst. Org. Chem., Univ. Duesseldorf, Duesseldorf, Ger.  
 SOURCE: Chem. Ber. (1971), 104(12), 3831-4  
 CODEN: CHBEAM  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German

AB Me<sub>3</sub>SiCl and MeNH<sub>2</sub> in pentane gave 85% (Me<sub>3</sub>Si)<sub>2</sub>NMe, which reacted with  
 (F<sub>3</sub>CCO)<sub>2</sub>O at room temperature to give 95% F<sub>3</sub>CCON(Me)SiMe<sub>3</sub>.

IT 24589-78-4P  
 RL: SPN (Synthetic preparation); **PREP (Preparation)**  
 (preparation of)  
 RN 24589-78-4 CAPLUS  
 CN Acetamide, 2,2,2-trifluoro-N-methyl-N-(trimethylsilyl)- (8CI, 9CI) (CA  
 INDEX NAME)



L5 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2000 ACS  
 ACCESSION NUMBER: 1969:57999 CAPLUS  
 DOCUMENT NUMBER: 70:57999  
 TITLE: Bis(trimethylsilyl)trifluoroacetamide  
 INVENTOR(S): Gehrke, Charles W.; Stalling, David L.  
 PATENT ASSIGNEE(S): Research Corp.  
 SOURCE: U.S., 1 p.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3415864	A	19681210	US 1967-666975	19670911
GB 1194105	A	19700610	GB 1968-1194105	19680829
PRIORITY APPLN. INFO.:			US 1967-666975	19670911

AB Et<sub>3</sub>N (270 ml.) was added to 146 g. Me<sub>3</sub>SiCl and the mixture slowly added to  
 58 g. CF<sub>3</sub>CONH<sub>2</sub> under anhydrous conditions and refluxed. The mixture was

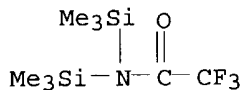
filtered and distilled in vacuo to yield CF<sub>3</sub>CON(SiMe<sub>3</sub>)<sub>2</sub> (I), b<sub>27</sub> 47°. I has application as a reagent for making Me<sub>3</sub>Si-derivs. of amino acids for gas liquid chromatog.

IT 21149-38-2P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 21149-38-2 CAPLUS

CN Acetamide, 2,2,2-trifluoro-N,N-bis(trimethylsilyl)- (8CI, 9CI) (CA INDEX NAME)



=> file reg

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FULL ESTIMATED COST	43.58	66.83
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-5.57	-5.57

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DICTIONARY FILE UPDATES: 13 AUG 2000 HIGHEST RN 285545-91-7

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Please note that search-term pricing does apply when  
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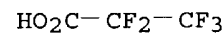
Structure search limits have been increased. See HELP SLIMIT  
for details.

=> s pentafluoropropanoic acid/cn

L6 1 PENTAFLUOROPROPANOIC ACID/CN

=> d scan

L6 1 ANSWERS REGISTRY COPYRIGHT 2000 ACS  
IN Propanoic acid, pentafluoro- (9CI)  
MF C3 H F5 O2  
CI COM



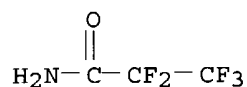
ALL ANSWERS HAVE BEEN SCANNED

=> s c3h2f5no/mf

L7 2 C3H2F5NO/MF

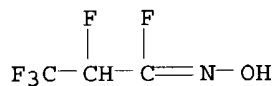
=> d scan

L7 2 ANSWERS REGISTRY COPYRIGHT 2000 ACS  
IN Propanamide, 2,2,3,3,3-pentafluoro- (9CI)  
MF C3 H2 F5 N O  
CI COM



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L7 2 ANSWERS REGISTRY COPYRIGHT 2000 ACS  
IN Propanimidoyl fluoride, 2,3,3,3-tetrafluoro-N-hydroxy- (9CI)  
MF C3 H2 F5 N O  
CI COM



ALL ANSWERS HAVE BEEN SCANNED

=> s propanamide

L8 80775 PROPANAMIDE

=> s propanamide and l7

80775 PROPANAMIDE  
L9 1 PROPANAMIDE AND L7

=> s l8 and 1-3/si

849289 1-3/SI  
L10 879 L8 AND 1-3/SI

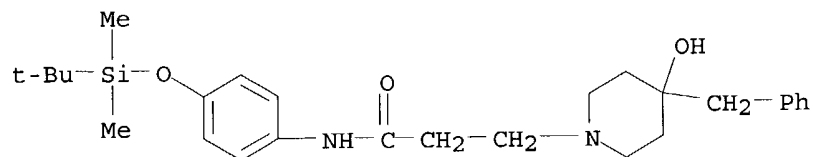
=> s l8 and 1-2/si

819660 1-2/SI  
L11 855 L8 AND 1-2/SI

=> s l11 and 1/nc

22233131 1/NC  
L12 817 L11 AND 1/NC

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L12 817 ANSWERS  REGISTRY  COPYRIGHT 2000 ACS
IN  1-Piperidinepropanamide, N-[4-[[ (1,1-dimethylethyl)dimethylsilyl]oxy]
MF  phenyl]-4-hydroxy-4-(phenylmethyl)- (9CI)
    C27 H40 N2 O3 Si
```


$$\Rightarrow s \leq 18 \text{ and } 1/n$$

$\Rightarrow s_{112}$  and  $1/n$

=> s l14 and f/els

=> d scan

```
L15 30 ANSWERS  REGISTRY  COPYRIGHT 2000 ACS
IN  Propanamide, 2,3,3,3-tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-
    (heptafluoropropoxy)propoxy]-N-[3-(trimethoxysilyl)propyl]- (9CI)
MF  C15 H16 F17 N O6 Si
CI  COM
```

